

Converting Colors

XYZ(22.4665, 12.0261, 21.9210)

Have a look what the booklet for
XYZ(22.4665, 12.0261, 21.9210)
contains.

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Color

**XYZ(22.4680, 12.0171,
21.9042)**

Conversions

Conversions Part 1

Format	Color
Hex	B02381
RGB	176, 35, 129
RGB Percent	69%, 14%, 51%
CMY	0.3098, 0.8627, 0.4941
CMYK	0.00, 0.80, 0.27, 0.31
HSL	320°, 67%, 41%
HSV	320°, 80%, 69%
XYZ	22.4680, 12.0171, 21.9042
YIQ	87.8750, 53.8620, 59.1260

Conversions

Conversions Part 2

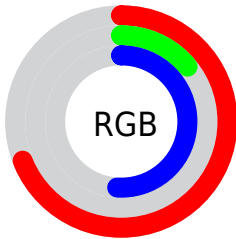
Format	Color
RYB	176, 35, 129
Decimal	11543425
CIELab	41.24, 62.42, -18.49
CIElCh	41, 65.100, 343.496
Yxy	12.0171, 0.3984, 0.2131
Android (android.graphics.Color)	4289733505 (0xFFB02381)
YUV	87.8750, 20.2746, 77.2856
Hunter-Lab	34.6657, 55.0269, -13.1976

Details

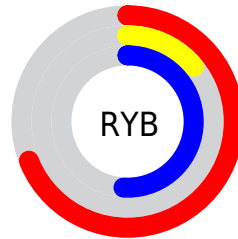
The XYZ color **22.4680, 12.0171, 21.9042** is a dark color, and the websafe version is hex **990066**. A complement of this color would be **17.7422, 32.0177, 13.2294**, and the grayscale version is **9.1985, 9.6775, 10.5388**.

A 20% lighter version of the original color is **46.9791, 29.5890, 47.4911**, and **9.0557, 4.5011, 7.9809** is the 20% darker color. If you saturate the color by 10%, you get **21.6950, 11.0773, 19.7773**, and if you desaturate by 10%, it is **23.5238, 13.4864, 24.2360**.

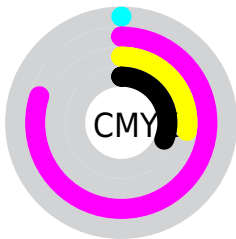
Distribution



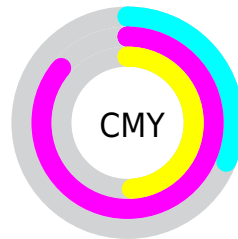
- Red (69%)
- Green (14%)
- Blue (51%)



- Red (69%)
- Yellow (14%)
- Blue (51%)



- Cyan (0%)
- Magenta (80%)
- Yellow (27%)
- Black (31%)



- Cyan (31%)
- Magenta (86%)
- Yellow (49%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 22.4680, 12.0171, 21.9042 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 22.4680, 12.0171, 21.9042 by changing the saturation by 10% instead.

■ 22.4680, 12.0171,
21.9042

■ 22.4680, 12.0171,
21.9042

257.5673,
204.5185, 274.9827

■ 14.3197, 6.7553,
13.5889

■ 46.9914, 29.5262,
47.4878

■ 8.4265, 3.3096,
7.6998

■ 64.0972, 42.5424,
65.5931

■ 4.4232, 1.2954,
3.8185

■ 84.9196, 58.9122,
87.7988

■ 1.9442, 0.1376,
1.5263

■ 109.8239, 79.0199,
114.5235

■ 0.6023, 0.0000,
0.2374

■ 139.1755,
103.2500, 146.1857

■ 0.0000, 0.0000,
0.0000

■ 173.3397,

131.9868, 183.2040

212.6818,
165.6149, 225.9968

■ 22.4680, 12.0171,
21.9042

■ 22.4680, 12.0171,
21.9042

■ 21.6950, 11.0773,
19.7773

■ 23.5238, 13.4864,
24.2360

■ 21.1350, 10.5223,
17.8486

■ 24.8958, 15.5519,
26.7855

■ 26.6139, 18.2724,
29.5643

■ 28.7039, 21.6992,
32.5829

■ 31.1892, 25.8785,
35.8506

■ 34.0911, 30.8525,
39.3763

■ 37.4295, 36.6602,
43.1682

■ 41.2228, 43.3381,
47.2339

■ 45.4884, 50.9206,
51.5809

Harmonies

Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



18.8433, 12.0171, 42.2880



22.4680, 12.0171, 21.9042



22.6613, 12.0171, 7.9243

Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



22.4680, 12.0171, 21.9042



9.4392, 12.0171, 0.5458



6.0387, 12.0171, 40.2223

Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



22.4680, 12.0171, 21.9042



17.7422, 32.0177, 13.2294

Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



4.6933, 12.0171, 20.1054



22.4680, 12.0171, 21.9042



6.2607, 12.0171, 1.8558

Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



22.4680, 12.0171, 21.9042



14.1875, 12.0171, 0.6076



4.7615, 12.0171, 7.0214



9.0413, 12.0171, 56.9204

Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



22.4680, 12.0171, 21.9042



20.7417, 12.0171, 3.3657



4.7615, 12.0171, 7.0214



5.4198, 12.0171, 33.2071

Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



22.4684, 12.0177, 21.9044



59.4655, 51.8851, 68.6000



11.9180, 6.1313, 41.6299



12.4964, 10.5758, 14.3882



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



22.4684, 12.0177, 21.9044



38.5780, 19.3418, 33.1771



19.2826, 10.7434, 5.1284



8.7272, 8.5976, 10.0618



15.5350, 7.7315, 13.2431



0.5145, 0.2536, 0.5521

Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



22.4684, 12.0177, 21.9044



38.5780, 19.3418, 33.1771



21.9276, 33.6919, 35.2692



8.7272, 8.5976, 10.0618



15.5350, 7.7315, 13.2431



0.5145, 0.2536, 0.5521

Previews

White Background



This preview shows how the XYZ color 22.4680, 12.0171, 21.9042 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the XYZ color 22.4680, 12.0171, 21.9042 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

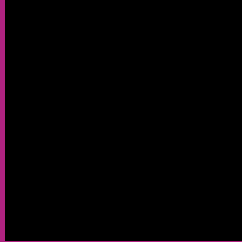
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 22.4680, 12.0171, 21.9042

Background



This preview shows how black text looks on a background with the XYZ color 22.4680, 12.0171, 21.9042.



This preview shows how white text looks on a background with the XYZ color 22.4680, 12.0171,

Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

Dichromacy



Original Color

22.4680, 12.0171, 21.9042

Protanopia

13.8095, 12.4459, 41.7189

Deuteranopia

12.4579, 12.2330, 19.7938



Tritanopia

19.2281, 12.1337, 5.8860

Trichromacy



Original Color

22.4680, 12.0171, 21.9042

Protanomaly

14.2139, 10.2497, 33.5770

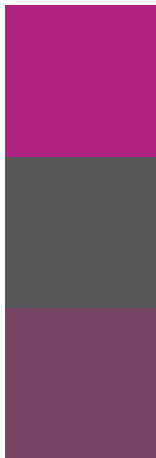
Deuteranomaly

14.5443, 10.7128, 20.3700

Tritanomaly

20.0539, 11.8373, 10.0320

Monochromacy



Original Color

22.4680, 12.0171, 21.9042

Achromatopsia

9.2757, 9.7587, 10.6273

Achromatomaly

12.3220, 9.2286, 13.9638

CSS Examples

Text

The CSS property to change the color of the text to XYZ 22.4680, 12.0171, 21.9042 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(176, 35, 129)` looks like.

```
.text, #text, p{  
    color:rgb(176, 35, 129)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(176, 35, 129) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(176, 35, 129) }
```

Border

The CSS property to change the border of an element to XYZ 22.4680, 12.0171, 21.9042 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(176, 35, 129) }
```


If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(176, 35, 129) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(176, 35, 129)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(176, 35, 129); -webkit-box-shadow:4px 4px 4px 4px rgb(176, 35, 129); box-shadow:4px 4px 4px 4px rgb(176, 35, 129) }
```

Background

The CSS property to change the background color of an element to XYZ 22.4680, 12.0171, 21.9042 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(176, 35, 129) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(176, 35,  
129) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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